



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Voltage 60 V Current 2 A

Features

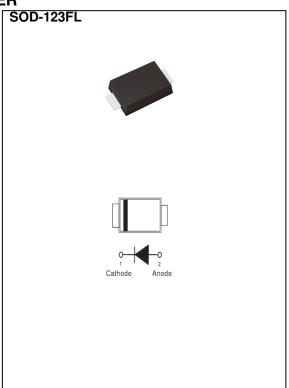
- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

Mechanical Data

• Case: SOD-123FL Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0006 ounces, 0.0173 grams



Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum Rms Voltage	V_{RMS}	42	V
Maximum Dc Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Current	I _{F(AV)}	2	Α
Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	50	Α
Typical Junction Capacitance Measured at 1 MHz And Applied VR = 4V	CJ	80	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾ R _{θJA} ⁽²⁾ R _{θJC} ⁽²⁾	200 60 32	°C/W
Operating Junction Temperature Range	T_J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





Electrical Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
	V _F	$I_F = 0.5 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.43	-	· V
Farmend Valtage		$I_F = 2 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	-	0.7	
Forward Voltage		$I_F = 0.5 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.36	-	
		I _F = 2 A, T _J = 125 °C	-	0.57	-	
	I _R ⁽³⁾	$V_R = 48 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	5.5	-	uA
Reverse Current		$V_R = 60 \text{ V}, T_J = 25 ^{\circ}\text{C}$	-	-	40	
		$V_R = 60 \text{ V}, T_J = 125 ^{\circ}\text{C}$	-	4.3	-	mA

NOTES:

- 1. Mounted with minmum recommended pad size, PC Board FR4
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area
- 3. Short duration pulse test used to minimize self-heating effect





TYPICAL CHARACTERISTIC CURVES

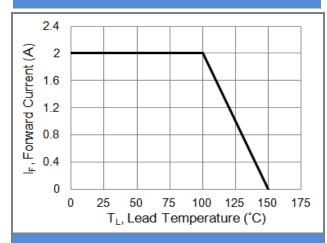


Fig.1 Forward Current Derating Curve

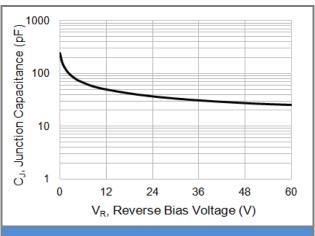


Fig.2 Typical Junction Capacitance

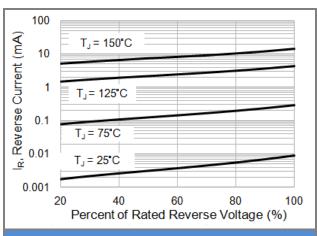


Fig.3 Typical Reverse Characteristics

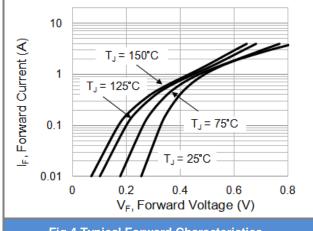


Fig.4 Typical Forward Characteristics

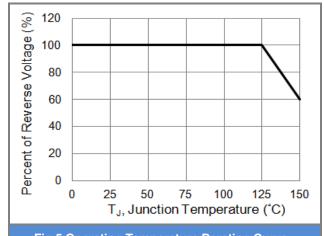


Fig.5 Operating Temperature Derating Curve

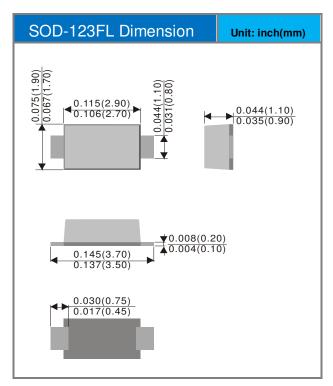


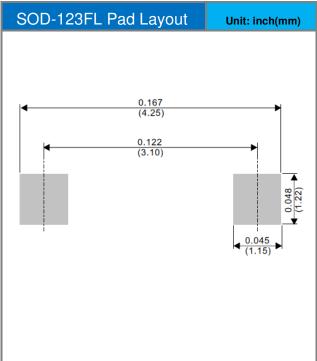


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SS2060FL-AU_R1_000A1	SOD-123FL	3K / 7" Reel	GQ	Halogen free

Packaging Information & Mounting Pad Layout









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